91

INTERCEPTED PLANT PESTS 1969 - 1970

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PRODUCTION & MARKETING
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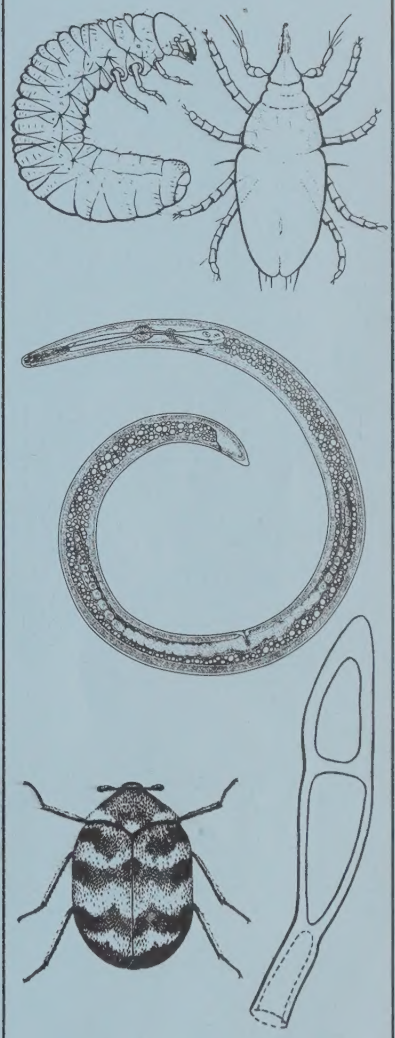

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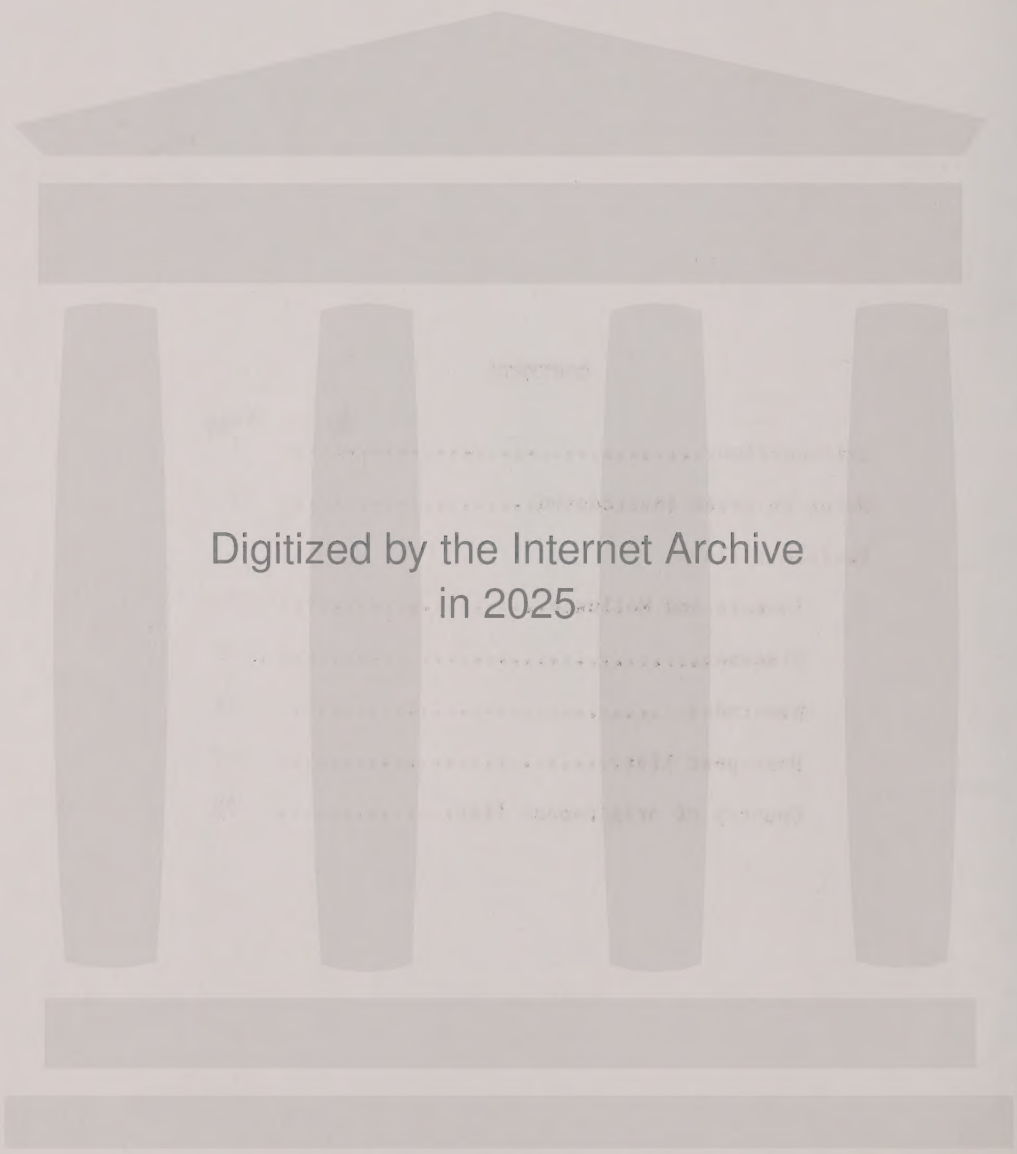

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CANADA DEPARTMENT OF AGRICULTURE

Production and Marketing Branch Plant Protection Division

LIST OF INTERCEPTED PLANT PESTS

April 1st, 1969 - March 31st, 1970

INTRODUCTION

This report summarizes the import interception records of the Plant Protection Division for the period April 1st, 1969, to March 31st, 1970, and includes plant pests found on plants, plant products, baggage, cargo, mail or carriers entering Canada. Pest records concerning pre-shipment inspection of flowering bulbs in the Netherlands, the Canadian Nursery Survey, Canadian Export Certification, and various domestic surveys may be found in other reports covering these activities. The following lists include only those pests which are considered to be of plant quarantine interest and a few which may be of interest because they are new to the country of origin or to the host plant or are of limited distribution in Canada.

In order to prepare a report of this type, Canadian distribution records for the various plant pests must be available and the taxonomy of the various groups must be relatively stable. Where there is insufficient information in regard to these requisites, the pests concerned are arbitrarily included in these lists.

In this report pests are recorded in three groups: insects, etc,; fungi, bacteria, viruses and nematodes. Imports are divided into two groups: "propagation" and "consumption", according to their obvious or intended use. The term "non-entry" may appear under either of these two groups. This refers to the interception of a pest in the space of a carrier (ship, airplane, etc.) or on some product, plant, etc. within the carrier not intended to be moved into this country. In all cases, however, the carrier was present on Canadian soil or in Canadian waters at the time of inspection. The heading "Host (or carrier)" is used in this report because many of the plants associated with a specific pest may not necessarily be host plants, and soil or other materials not associated with plants at the time of interception may also carry pests. The term "Soil" is used only when no recognizable plant or plant material could be associated with the soil in which a pest was found.

Both the "Host" and "Origin" lists refer only to the name of the pest organism. The most complete information is available in the "Pest" list. A large number of the more common intercepted insects, mites, mollusca, fungi, bacteria and nematodes were not included in these lists, but information on these as well as more detailed information on those included here is on file and may be obtained by contacting The Director, Plant Protection Division, Ottawa.

With few exceptions, determinations of insects, nematodes and fungi were made or were confirmed by specialists in the Research Branch, Canada Agriculture. Mollusca were identified at the Canadian National Museum. In certain ports, inspectors are qualified to make identifications of specific pests because of frequent interceptions of the pest from the same state or country. However, even such identifications are checked by specialists from time to time. The scientific names in these lists are those provided by each specialist at the time the determinations were made. Many pests were incompletely determined, but those which may be of quarantine significance are included in the lists.

Notes on Pests Intercepted

Pest interceptions have remained at approximately the same level over the past several years with a trend to slightly lower total numbers. In 1968-69 the total was 1,124 and in 1969-70 it was 1,006.

The following table compares the total interceptions for each of the three pest groups with the related totals which are of quarantine significance or other interest. The figures in brackets are those for the previous year, 1968-69.

	No. of Interceptions	
	Total	of P.Q. significance
Nematodes	334 (440)	216 (222)
Fungi, Bacteria & Viruses	140 (280)	25 (94)
Insects, mites, Molluscs	532 (404)	189 (108)
Grand Total	1,006 (1,124)	430 (424)

The most important development in the fiscal year presented in this report is the increased ratio of significant pests found in the air travellers' baggage as compared respectively with the total number of significant pests intercepted, as follows. In 1967-68 (Expo year) the ratio was 1 in 6; in 1968-69 it dropped to 1 in 20 and in the present year (1969-70) it rose to 1 in 3. In the same period the significant interceptions in commercial importations have steadily declined. This situation has arisen to a large extent as the result of two factors: an increase in air travel and regulations prohibiting plants with soil from most countries.

A.E. Straby
Central Identification Laboratory
Plant Protection Division

March 31, 1971

CORRECTION
In the 1968-69 report the name Bruchus rufimanus (Boh.) "broadbean weevil" should be replaced by Callosobruchus maculatus (F.) "cowpea weevil".

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Prop.	Consump.	COLLECTED IN
Acedes pallescentella (Staint.) "large pale clothes moth" (Tiniidae):					
	Tobacco residue in ship.....	Unknown		1 non-entry	B.C.
Achatina fulica Bowdich "giant African snail" (Achatinidae) first interception:					
	Dracaena.....	Fla.	1		Ont.
Agriotes pallidulus (Ill.) "a wireworm" (Elateridae) first interception:					
	Agricultural machinery (combines)....	Germany		1	Ont.
Anua coronata (F.) "a cutworm" (Noctuidae):					
	Airplane (space).....	Hong Kong		1 non-entry	B.C.
Aphodius sp. (Scarabaeidae):					
	Solanum tuberosum (tubers).....	Italy	1		Ont.
Apion spp. "apion weevils" (Curculionidae):					
	Agricultural machinery (combines)....	Germany		1	Ont. (Thunder Bay)
Arianta arbustorum L. "a snail" (Helicidae):					
	Aesculus.....	Netherlands	1		B.C.
Arion ater (L.) "the black slug" (Arionidae):					
	Cornus.....	Netherlands	1		Man.
Arion fasciatus Nilsson "a slug" (Arionidae):					
	Rhododendron.....	Wash. (USA)	1		Alta.
Arion subfuscus (Drap.) "a slug" (Arionidae):					
	Packing (with plants).....	Belgium	1		B.C.
Attagenus gloriosae (F.) (Dermestidae):					
	Grain residue in ship.....	Unknown		1 non-entry	B.C.
Bephrata maculicollis Cam. "a Eurytomid wasp" (Eurytomidae) first interception:					
	Annona muricata (soursop).....	Jamaica		1	B.C.
Bostrychoplites cornutus (Oliv.) (Bostrichidae) first interception:					
	Wood (lumber).....	Africa			Ont.
Bruchus rufimanus (Boh.) "broadbean weevil" (Bruchidae)					
	Vicia faba (broadbean).....	Italy	1		B.C.
Callosobruchus chinensis L. "southern cowpea weevil" (Bruchidae):					
	Herbs (medical).....	Hong Kong		1	B.C.
Callosobruchus maculatus (F.) "cowpea weevil" (Bruchidae):					
	Cajanus (pigeon pea).....	Unknown		1	Que.
	Phaseolus (Mung, etc.).....	Hong Kong		1	B.C.
		Philippines		2	B.C.
		Uganda		1	Ont.
	Vigna?	Cal. (USA)		1	Que.
		Macao		1	Alta.

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Prop.	Consump.	COLLECTED IN
Carpophilus dimidiatus (F.) "Corn sap beetle" (Nitidulidae):					
	Grain residue in ship.....	Unknown		1 non-entry	Ont.
	Myristica (nutmeg).....	Trinidad		1 " "	B.C.
Carpophilus hemipterus (L.) "a dried fruit beetle" (Nitidulidae):					
	Ananas (pineapple).....	Hawaii (USA)		1	B.C.
	Cocos (Coconut).....	" "		1	B.C.
Carpophilus obsoletus Ericks. "a dried fruit beetle" (Nitidulidae):					
	Cocoa bean residue in ship.....	Unknown		1 non-entry	N.S.
Cephalonomia sp. n. near peregrina Westw. (Formicidae):					
	Cargo (general).....	Orient		1	B.C.
Chrysomphalus ficus Ashm. "florida red scale" (Diaspididae):					
	Dracaena.....	Fla. (USA)	1		Man.
Coccus sp. prob. viridis (Green) "a scale" (Coccidae) first interception:					
	Coffea (coffee plant).....	Puerto Rico	1		B.C.
Conoderus vespertinus (Fab.) "a wireworm" (Elateridae):					
	Lycopersicon (tomato transplants).....	Ga. (USA)	1		Ont.
Corcyra cephalonica Stainton "rice moth" (Pyralididae):					
	Grain residue in ship.....	Unknown		1 non-entry	Que.
	Plants (herbaceous).....	Portugal	1		Ont.
Crambus sp. (Crambidae):					
	Bambusa (bamboo canes).....	Japan		1	Ont.
Crematogaster ashmeadi Mayr. (Formicidae):					
	Litchi (lychee nuts).....	Mexico		1	B.C.
Dacus dorsalis Hendel "oreintal fruit fly" (Tephritidae):					
	Cocos (coconut husk).....	Hawaii (USA)		1	B.C.
Denticollis linearis (L.) "a wireworm" (Elateridae):					
	Cornus.....	Netherlands	1		Ont.
Diaspis boisduvalii (Signoret) "boisduval scale" (Diaspididae):					
	Chamaerops (windmill palm).....	Cal. (USA)	1		B.C.
Dinoderus brevis Horn (Bostrichidae):					
	Bambusa (tumblers).....	Jamaica		1	Ont.
Dinoderus japonicus Lesne (Bostrichidae):					
	Bambusa (bamboo canes).....	Japan		1	Ont.
Ectomyelois ceratomiae (Zell.) (Phycitidae) first interception:					
	Cocos (coconut).....	Hawaii (USA)		1	Alta.
Ectomyelois decolor (Zell.) (Phycitidae) first interception:					
	Unknown.....	Portugal	1		B.C.

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Prop.	Consump.	COLLECTED IN
Epiphyas postvittana (Wlk.) "light-brown apple moth" (Tortricidae) first interception:					
	Malus (apple fruit).....	Australia (Tasmania)		1	B.C.
Euphoria basalis G. & P. (Scarabaeidae) first interception:					
	Containers (in space with pottery)...	Mexico		1	
Glischrochilus quadrisignatus (Say) "a dried fruit beetle" (Nitidulidae):					
	Grain residue on ship.....	Unknown		1 non-entry	Ont.
Gnorimoschema (Phthorimaea) *operculella* (Zell.) "potato tuberworm"(Gelechiidae):					
	Solanum tubersoum (chipping potatoes).....	Va. (USA)		2	Que. & Ont.
Gracilaria azaleella Brants "Azalea leaf miner" (Gracilariidae):					
	Rhododendron (azalea).....	Netherlands	1		B.C.
Grapholitha molesta Busck "oriental fruit moth" (Olethreutidae):					
	Prunus (fresh peaches).....	Idaho (USA)		1	B.C.
Helicina subfusca Menke "a snail" (Helicinidae):					
	Dracaena.....	Puerto Rico	1		Ont.
Helix aspersa (Müller) "brown garden snail" (Helicidae):					
	Euonymus.....	Cal. (USA)	1		B.C.
	Fuchsia.....	" "	1		B.C.
	Hedera.....	" "	1		B.C.
	Plants (herbaceous).....	" "	1		B.C.
	Plants (woody).....	" "	1		B.C.
	Rhododendron (azalea).....	" "	1		Que.
	Viburnum.....	" "	1		B.C.
Heterobostrychus brunneus (Murray) (Bostrichidae):					
	Wood (drum).....	Sierra Leone		1	Ont.
	Wood (lumber).....	Africa (country - ?)		1	Ont.
Hofmannophila pseudospretella (Staint.) "brown house moth" (Oecophoridae):					
	Grain residue in ship.....	Unknown		7 non-entry	N.B. (4X). Que., Ont., B.C.
Homona magnanima Diakonoff "tea tortrix" (Tortricidae) first interception:					
	Citrus (mandarine oranges).....	Japan		1	B.C.
Hylastes sp. (Scolytidae):					
	Debris (under rust on ship).....	Unknown		1 non-entry	Ont.
Lasius alienus (Forster) (Formicidae):					
	Diospyros.....	Vietnam	1		B.C.
	Paeonia.....	Japan	1		B.C.
Lasius neoniger Emery (Formicidae):					
	Calamondin.....	Cal. (USA)	1		B.C.
	Litchi (lychee nuts).....	Hong Kong		2	B.C.
Laspeyresia sp. prob. *piperana* "a pine-cone moth" (Olethreutidae):					
	Pinus sp. (cones).....	Cal. (USA)	1		B.C.

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Prop.	Consump.	COLLECTED IN
Lepidosaphes beckii (Newman) "purple scale" (Diaspididae):					
	Citrus (fruit)	Portugal		1	Que.
Liposcelis divinatorius (Muller) "cereal psocid" (Liposcelidae):					
	Herbs (dried)	Hong Kong		1	B.C.
	Seed (unknown)	India	1		B.C.
Litargus balteatus (Lec.) "a hairy fungus beetle" (Mycetophagidae):					
	Grain residue in ship	Unknown		1 non-entry	B.C.
Lyctus brunneus (Steph.) "a powder-post beetle" (Lyctidae):					
	Wood (bamboo curtains)	Japan		1	Que.
	Wood (crates containing nuts)	Peru		1	B.C.
	Wood (furniture)	Spain		1	B.C.
	Wood (musical instrument)	Haiti		1	Que.
Maruca testulalis (Geyer) (Pyraustidae) first interception:					
	Hibiscus (okra)	Fiji		1	B.C.
	Phaseolus (beans)	Fiji		1	B.C.
Microgramme filiformis Gyllenhall (Lathridiidae):					
	Gladiolus (corms)	Netherlands	1		Ont.
Minthea rugicollis (Wlk.) (Lyctidae):					
	Wood (crates containing cashews)	India		1	Ont.
Monomorium destructor (Jerdon) (Formicidae) first interception:					
	Ananas (pineapple)	Philippines		1	B.C.
	Fruit (dried)	Hong Kong		1	B.C.
Monomorium minimum (Buckley) (Formicidae):					
	Cocos (coconuts)	Hawaii (USA)		2	B.C.
	Dracaena	Hawaii (USA)	1		B.C.
Monomorium pharaonis (L.) (Formicidae):					
	Asparagus	Fla. (USA)	1		B.C.
	Containers (containing animals)	Fla. (USA)		1	B.C.
	Phaseolus (beans)	Fiji		1	B.C.
	Vigna (beans)	Taiwan		1	B.C.
Murmidius ovalis (Beck) "cylindrical bark beetles" (Murmidiidae):					
	Oryza (rice)	Vietnam		1	B.C.
Myrmica laevinodis (Nyl.) (Formicidae):					
	Packing (with plants)	Netherlands		1	Ont.
Myzus (Nectarosiphon) persicae (Sulz.) "green peach aphid" (Aphididae):					
	Chrysanthemum (cuttings)	England	1		Ont.
	Schefflera	Fla. (USA)	1		Que.
Nemobius sp. (Gryllidae):					
	Packing (with paintings)	Italy		1	Ont.
Noctuidae "cutworms" (Lepidoptera):					
	Juniperus, Pelargonium, Ribes, Prunus and Schefflera	Cal. (USA) (5X), Fla. (USA), Netherlands, Orient		8	Que. (2X), Ont. Man., B.C. (3X)

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Prop.	Consump.	COLLECTED IN
Oulema gallaeciana Heyden (Chrysomelidae) first interception:					
	Agricultural machinery (combines)...	Germany		1	Ont. (Thunder Bay)
Oulema melanopa (L.) "cereal leaf beetle" (Chrysomelidae):					
	Agricultural machinery (combines....	Germany		1	Ont. (Thunder Bay)
Paratrechina longicornis (Latreille) (Formicidae):					
	Ananas (pineapple).....	Hawaii (USA)		1	B.C.
Parlatoria pergandii Comstock (Diaspididae) first interception:					
	Citrus (plant).....	Hong Kong	1		B.C.
Pheidole bicarinata vinelandica Forel (Formicidae):					
	Phaseolus (beans).....	Fiji		1	B.C.
Pheidole dentata May (Formicidae):					
	Herbs (dried).....	Hong Kong		1	Alta.
	Wood (crating).....	Ivory Coast		1	N.S.
	Wood (drum).....	Sierra Leone		1	Ont.
Pheidole floridana Emery (Formicidae):					
	Calamondin.....	Cal. (USA)	1		B.C.
	Orchidaceae.....	Costa Rica	1		B.C.
	Plants (herbaceous).....	Hawaii (USA)	1		B.C.
Phloeotribus scarabaeoides Bernard (Scolytidae) first interception:					
	Olea europaea (olive cuttings).....	Greece	1		B.C.
Phryganidia californica Packard "California oakworm" (Dioptidae):					
	Fuchsia	Cal. (USA)	1		B.C.
Phyllotreta sp. near undulata Kutsch. (Chrysomelidae) first interception:					
	Agricultural machinery (combines)...	Germany		1	Ont. (Thunder Bay)
Pinnaspis aspidistrae (Signoret) "fern scale" (Diaspididae):					
	Aspidistra.....	Fla. (USA)	1		Que.
	Gardenia.....	Italy	1		Que.
	Howea (palm).....	Mexico	1		Ont.
	Pachysandra.....	Mich. (USA)	1		Ont.
Pinnaspis strachani (Cooley) (Diaspididae) first interception:					
	Asparagus (fern).....	Hawaii (USA)	1		B.C.
Platyptilia sp. prob. pica (Wlsm.) "geranium plume moth" (Pterophoridae):					
	Pelargonium (cuttings and potted plants).....	Cal. (USA)	4		Que., Ont. (2X), B.C.
Potosia cuprea Fab. (Scarabaeidae) first interception:					
	Airplane (space).....	Japan(?)		1 non-entry	B.C.

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Prop.	Consump.	COLLECTED IN
Promylea sp. (Phycitidae) No species in this genus has previously been reared from mistletoe:					
	Phoradendron (mistletoe).....	Cal. (USA)		1	B.C.
Pseudorhynchus sp. prob. concisus (Walker) (Locustidae) first interception:					
	Packing (with dry goods).....	China		1	B.C.
Rhaphuma annularis (Fab.) (Cerambycidae) first interception:					
	Bambusa (bamboo canes).....	Japan		1	Ont.
Rhizophagus near ferrugineus (Pk.) (Rhizophagidae) first interception:					
	Grain residue in ship.....	Unknown		1 non-entry	B.C.
Rhyzopertha dominica (Fab.) "lesser grain borer" (Bostrichidae):					
	Nelumbium (lotus nuts).....	Hong Kong		1	B.C.
	Oryza (rice).....	" "		1	B.C.
	Panax "ginseng".....	" "		1	B.C.
	Seed (unknown).....	India	1		B.C.
	Grain residue in ship.....	Unknown		15 non-entry	N.S.(2X), N.B.(2X), Que.(2X), Ont., B.C.(8X)
Saissetia oleae (Bern.) "black scale" (Coccidae):					
	Ficus.....	Fla. (USA)	3		Que. & Man. (2X)
	Litchi (lychee nuts).....	Mexico		1	B.C.
Silvanus bidentatus (Fab.) (Cucujidae):					
	Solanum (potato tubers).....	Japan	1		B.C.
Sitona lineata L. (Curuclionidae):					
	Mahonia.....	Wash. (USA)			B.C.
Sitotroga cerealella (Oliv.) "angoumois grain moth" (Gelechiidae):					
	Grain residue in ship.....	Unknown		7 non-entry	N.S. (2X), N.B., Que. (2X). Ont. & B.C.
Spermophagus sp. (Bruchidae) first interception of genus:					
	Ipomea (morning glory seed).....	Hong Kong	1		B.C.
Spodoptera exigua (Hbn.) "beet armyworm" (Noctuidae):					
	Chrysanthemum (cuttings).....	Fla.	3		Ont.
Telephanus sp. (Cucujidae):					
	Ananas (pineapple).....	Hawaii (USA)		1	B.C.
Tetramorium caespitum (L.) "pavement ant" (Formicidae):					
	Carica (papaya fruit).....	Hawaii (USA)		1	B.C.
	Cocos (coconut).....	Hawaii (USA)		2	B.C.
	Juglans (walnuts).....	Cal. (USA)	1		Ont.

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Prop.	Consump.	COLLECTED IN
Tetramorium guineense (Fab.) (Formicidae):					
	Fruit (unknown).....	India		1	B.C.
	Seed "	India		1	B.C.
Thyridopteryx ephemeraeformis (Haw.) " a bagworm" (Psychidae):					
	Juniperus	Tenn. (USA)	2		Ont.
	Thuja	" "	2		Ont.
Tipula lamellata Doane (Tipulidae):					
	Saxifraga (with soil).....	Wash. (USA)	1		B.C.
Tortricidae:					
	Diospyros (persimmon).....	Japan	1		B.C.
Trogoderma granarium Everts "khapra beetle" (Dermestidae):					
	Cargo on ship.....	Mediterranean area		1	B.C.
Wasmannia auropunctata (Roger) "the little fire ant" (Formicidae):					
	Plants (herbaceous).....	Fla. (USA)	1		B.C.
	Psidium (guava fruit).....	Philippines		1	B.C.
Xyloperthini (Bostrichidae):					
	Wood (drum).....	Sierra Leone		1	Ont.

PEST (Disease)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Prop.	Consump.	COLLECTED IN
Chrysomyxa piperiana (Arth.) Sacc. & Trott. "a rust of R. californicum" and "Picea sitchensis" (Uredinales):					
	Rhododendron	Wash. (USA)	1		B.C.
Colletotrichum liliacearum (Schw.) Fer. "bulb scale spot" (Melanconiales):					
	Hemerocallis	Ill. (USA)	1		Ont.
Cumminsiella mirabilissima (Pk.) Nanuf. "Mahonia rust" (Uredinales):					
	Mahonia aquifolium	Wash. (USA)	3		B.C.
Prob. Erwinia amylovora (Burr.) Winsl. & al. "fireblight" (Eubacteriales):					
	Sorbus	Netherlands	1		B.C.
Fanleaf virus:					
	Vitis var's. Silvanic, Portogizac, Kraljevina	Yugoslavia	3		B.C.(P.E.Q.)
	Cabernet French I	Italy	1		B.C.(P.E.Q.)
Gloeosoprium cinctum B. & C. "orchid anthracnose" (Melanconiales) (Perf=Physalospora sp.) first interception:					
	Cymbidium (orchid)	Cal. (USA)	1		B.C.
Gymnosporangium haraeanum Syd., Teliospores, "a juniper-pear rust" (Uredinales):					
	Juniperus chinensis	Japan	1		B.C.
Gymnosporangium juniperi-virginianae Schw. "cedar-apple rust" (Uredinales):					
	Juniperus virginiana	Ill. (USA)	1		Man.
Melanospora sphaerodermoides Grove (Sphaeriales) "prob. a seed contaminant":					
	Agrostis palustris	Ore. (USA)	1		Sask.
Myxosporium lanceola Sacc. & Roum. "twig & stem canker" (Melanconiales) (Perf.= Diaporthe leiphaemia):					
	Quercus	Belgium	2		Ont.
Physalospora (Glomerella) miyabeana Fukushi "black canker" (Sphaeriales):					
	Salix	Tenn. (USA)	1		Ont.
Prunus necrotic ringspot virus:					
	Prunus -				
	Cherry var. Durone Di Cesena	Italy	1		B.C.(P.E.Q.)
	" " Interspecific Cross I	Germany	1		B.C.(P.E.Q.)
	Apricot var. Reaze D' Ithola Precole	Italy	1		B.C.(P.E.Q.)
Pseudomonas savastanoi (Smith) Stevens "olive knot" (Eubacteriales) first interception:					
	▲Olea(olive cuttings)	Greece			Que.
Puccinia heucherae (Schw.) Diet. var. saxifragae (Schlecht.) Savile, Teliospores, (Uredinales):					
	Saxifraga	Ore. (USA)	1		B.C.
Puccinia horiana P. Henn. "white rust of chrysanthemums" (Uredinales) first interception:					
	Chrysanthemum (cut flowers)	Japan		1	Alta.

"P.E.Q." denotes virus deseases determined at Post-Entry Quarantine Sta., Plant Protection Div., Saanichton, B.C.

▲Indicates items prohibited by regulation.

PEST (Disease)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Prop.	Consump.	COLLECTED IN
Puccinia ? striiformis West, Teliospores, "stripe rust of wheat" (Uredinales):					
✱	Triticum (wheat stems and seed)..	Italy		1	Alta.
Puccinia verruca Thuem., Teliospores, (Uredinales) first interception:					
✱	Centaurea.....	Italy	1		Que.

✱ Indicates items prohibited by regulation.

PEST (Nematode)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Prop.	Consump.	COLLECTED IN
Anguina agrostis (Steinbuch 1799) Filip. 1936 "grass seed nematode" (Tylenchidae):					
	Agrostis tenuis (Col. bentgrass).....	Ore. (USA)	3		Ont. & B.C.(2X)
Aphelenchoides sp. "foliar nematodes" (Aphelenchoididae):					
	Acer.....	Netherlands	1		Ont.
	Allium (shallots).....	"	1		B.C.
	Fraxinus.....	"	1		Ont.
	✱*Lycopersicon* (tomato seedlings).....	Portugal	1		Que.
	Paeonia.....	Belgium	1		Alta.
	✱Plants (woody).....	Italy	1		Que.
	Rosa.....	Ore. (USA)	1		Ont.
	Viburnum.....	Netherlands	1		Ont.
	Vitis (rooted cuttings).....	France	1		Ont.
	" " "	Mich. (USA)	1		Ont.
Criconema sp. "a spine nematode" (Criconematidae):					
	✱Plants (herbaceous).....	Italy	1		Que.
Criconemoides curvatum Raski 1952 "a ring nematode" (Criconematidae):					
	✱*Rosmarinus*.....	France	1		Que.
		Italy	1		Que.
Criconemoides lobatum Raski 1952 "a ring nematode" (Criconematidae):					
	Juniperus.....	Penn. (USA)	1		Que.
Criconemoides ? *maritimum* DeGrisse 1964 "a ring nematode" (Criconematidae):					
	✱*Rosmarinus* (rosemary).....	France	1		Que.
Criconemoides spp. (apparently undescribed) "ring nematodes" (Criconematidae):					
	Acer.....	Netherlands	1		Ont.
	✱*Begonia*.....	Italy	1		Que.
	✱*Bromelia* (etc.).....	Netherlands	1		Que.
	✱Fruit trees (kind?).....	Israel	1		Que.
	✱*Hedera*.....	Italy	1		Que.
	✱Plants (woody).....	N.Y. (USA)	1		Que.
Criconemoides xenoplax Raski 1952 "a ring nematode" (Criconematidae):					
	Pinaceae.....	Maine (USA)	1		Que.
Diphtherophora ? *obesus* Thorne 1939 (Diphtherophoridae):					
	Juniperus.....	Penn. (USA)	1		Que.
Ditylenchus destructor Thorne 1945 "potato rot nematode" (Tylenchidae) first record on garlic:					
	✱*Allium sativum* (garlic).....	Hong Kong	1		B.C.
	Iris (bulbs).....	Wash. (USA)	4		B.C.
		N.J. (USA)	1		Ont.
Ditylenchus dipsaci (Kühn 1857) Filip. 1936 "bulb and stem nematode" (Tylenchidae):					
	Allium (shallots).....	Netherlands	1		N.B.
Helicotylenchus californicus Sher 1966 "a spiral nematode" (Tylenchidae) first interception:					
	✱*Begonia*.....	Russia	1		Que.

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PEST (Nematode)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Prop.	Consump.	COLLECTED IN
Helicotylenchus digonicus Perry 1959 "a spiral nematode" (Tylenchidae) first interception:					
	✱Begonia	Russia	1		Que.
	Rosmarinus (rosemary)	France	1		Que.
		Italy	1		Que.
Helicotylenchus dihystera (Cobb 1893 Sher 1961 "a spiral nematode" (Tylenchidae) first interception:					
	✱Begonia	Italy	1		Que.
	✱Plants (herbaceous)	Portugal	1		Que.
	✱Plants (woody)	N.Y. (USA)	1		Que.
Helicotylenchus platyurus Perry 1959 "a spiral nematode" (Tylenchidae):					
	Juniperus	Penn. (USA)	1		Que.
Helicotylenchus pseudorobustus (Steiner 1914) Golden 1956 "a spiral nematode" (Tylenchidae):					
	✱Plants (Herbaceous)	Portugal	1		Que.
Helicotylenchus sp. "spiral nematodes" (Tylenchidae):					
	✱Hedera	Italy	1		Que.
		Poland	1		Que.
	Rosa	Cal. (USA)	1		Ont.
Heterodera avenae Woll. 1924 (Filip, 1934) "oat-cyst nematode" (Heteroderidae):					
	✱Agric. machinery (Tractor with soil)	England		1	Que.
	✱Automobile (with soil)	Denmark		1	N.S.
		England		2	Que.
		Germany		1	N.S.
		Sweden		1	B.C.
	✱Calluna (heather)	U.K.	1		Ont.
	✱Malus	France	1		Ont.
	Oxalis	Eire	1		Ont.
	✱Plants (herbaceous)	England	1		Ont.
		Hong Kong	1		B.C.
		Netherlands	2		Alta. & B.C.
	✱Plants (woody)	Poland	1		Ont.
	Spiraea	Netherlands	1		Que.
Heterodera ? bifenestra Cooper 1955 (Heteroderidae):					
	✱Plants (herbaceous)	Italy	1		Ont.
Heterodera cacti Filip. & Stek. 1941 "cactus-cyst nematode" (Heteroderidae):					
	✱Cactus	Taiwan	1		Ont.
	✱Crassula	Portugal	1		Que.
	Brassica (cauliflower seedlings)	Va. (USA)	1		Que.
	✱Nerium (oleander)	Italy	1		Que.
	✱Plants (herbaceous)	England	1		Ont.
	Plants (woody)	Miss. (USA)	1		Ont.
	Rosa	Cal. (USA)	1		Alta.
	Thuja	Conn. (USA)	1		Que.
Heterodera cruciferae Frankin 1945 "cabbage-cyst nematode" (Heteroderidae):					
	✱Begonia	Portugal	1		Que.
	✱Crassula	"	1		Que.
	✱Ranunculus	"	1		Que.

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PEST (Nematode)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Prop.	Consump.	COLLECTED IN
Heterodera fici Kirjanova 1954 "fig-cyst nematode" (Heteroderidae):					
⁂Automobile (with soil).....		England		1	Ont.
⁂*Calluna* (heather).....		U.K.	1		Ont.
⁂*Cyclamen*.....		Italy	1		Que.
⁂*Buxus*.....		Italy	1		Que.
⁂*Dianthus*.....		Portugal	1		Que.
⁂Fern.....		Italy	1		Que.
⁂*Ficus* (fig plant).....		Italy	2		Que.
⁂*Lycopersicon* (tomato seedlings)...		Portugal	1		Que.
⁂*Olea* (olive plant).....		Italy	1		Que.
⁂Plants (herbaceous).....		Italy	7		Que. Ont.(5X), B.C.
		Portugal	1		Que.
Heterodera humuli Filip. 1934 "hop-cyst nematode" (Heteroderidae):					
⁂*Asparagus*.....		Hungary	1		Que.
⁂Automobile (with soil).....		Poland		1	Que.
⁂Bulbs (flowering).....		Austria	1		Que.
⁂*Hydrangea*.....		"	1		Ont.
⁂*Nerium* (oleander).....		Portugal	1		Que.
⁂Plants (herbaceous).....		Hungary	1		Ont.
		Italy	8		Ont.
Heterodera punctata Thorne 1928 "grass-cyst nematode" (Heteroderidae):					
⁂Automobile (with soil).....		England		2	N.S. & Que.
		Europe		1	Que.
		Germany		1	N.S.
Plants (herbaceous).....		Netherlands	1		B.C.
Rosa.....		N. Ireland	1		Ont.
⁂Soil.....		England		1	Que.
Spiraea.....		Netherland	1		Que.
Heterodera rostochiensis Woll.1923 "potato-cyst nematode" (Heteroderidae):					
⁂*Calluna* (heather).....		U.K.	2		Ont.
⁂Plants (herbaceous).....		"	1		Ont.
Heterodera schachtii Schmidt 1871 "sugar beet nematode" (Heteroderidae):					
⁂Automobile (with soil).....		Germany		1	Que.
⁂*Dieffenbachia*.....		Italy	1		Que.
⁂*Fragaria*.....		Portugal	1		Ont.
⁂*Lilium*.....		Italy	2		Que. & Ont.
⁂*Lycopersicon* (tomato seedlings)...		Portugal	1		Que.
⁂Plants (herbaceous).....		Hungary	1		Ont.
		Poland	1		Que.
		Portugal	1		Ont.
⁂Plants (woody).....		Poland	1		Ont.
⁂Soil.....		Poland		1	Ont.
⁂*Solanum* (potato with pepper seedlings).....		Poland	1		Ont.
Heterodera sp. (probably undescribed) (Heteroderidae):					
⁂Bulbs.....		Hungary	1		Que.
⁂Plants (herbaceous).....		Italy	1		Ont.

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PEST (Nematode)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Prop.	Consump.	COLLECTED IN
Hoplolaimus galeatus (Cobb 1913) Sher 1961 "a lance nematode" (Tylenchidae):					
	Fraxinus	Netherlands	1		Ont.
	Juniperus	Penn. (USA)	1		Que.
	Pinaceae	Maine (USA)	1		Que.
Hoplolaimus sp. "lance nematodes" (Tylenchidae):					
	✱Artemisia	Germany	1		Alta.
Meloidogyne hapla (Neil 1899) Chitwood 1949 "northern root-knot nematode" (Heteroderidae):					
	Lycopersicon (tomato seedlings)	Ga. (USA)	1		Ont.
	Rosa	Belgium	2		Que. & Ont.
		France	3		Que.(2X), Ont.
		Netherlands	7		Que.(5X)&B.C. (2X)
		Ore.(USA)	3		B.C.
		Penn.(USA)	1		Ont.
		Tex. (USA)	3		Ont.(2X)&B.C.
	Syringa	Iowa (USA)	1		Ont.
	Weigela	Tenn. (USA)	1		B.C.
Meloidogyne incognita (Kofoid & White 1919) Chitwood 1949 "southern root-knot nematode" (Heteroderidae):					
	Lycopersicon (tomato seedlings)	Ga. (USA)	1		Ont.
	Rosa	Tex. (USA)	1		Ont.
Meloidogyne javanica (Treub. 1885) Chitwood 1949" Javanese root-knot nematode" (Heteroderidae):					
	Lycopersicon (tomato seedlings)	Ga. (USA)	1		Ont.
Meloidogyne sp. (Heteroderidae):					
	Deutzia	Tenn. (USA)	1		Ont.
	Forsythia	Tenn. (USA)	1		Ont.
	Lonicera	Tenn. (USA)	1		Ont.
	Lycopersicon (tomato seedlings)	Ga. (USA)	3		Ont.
	Morus	Tenn. (USA)	1		Ont.
	Philadelphus	Ala. (USA)	1		Ont.
	Rosa	Tex. (USA)	2		Ont. & B.C.
		Ore. (USA)	2		B.C.
	Spiraea	Tenn. (USA)	1		Ont.
	Viburnum	Tenn. (USA)	1		Ont.
Paratylenchus projectus Jenkins 1956 "a pin nematode" (Criconematidae):					
	✱Calluna (heather)	Belgium	1		Que.
	✱Plants (woody)	Poland	1		Que.
	✱Rosmarinus	France	1		Que.
Paratylenchus sp. "pin nematodes" (Criconematidae):					
	✱Begonia	Russia	1		Que.
	✱Rosmarinus	Italy	1		Que.
	Thuja	Conn. (USA)	1		Que.
Pratylenchus ? minyus Sher & Allen 1953 "a root-lesion nematode" (Tylenchidae):					
	✱Rosa	Poland	1		Que.

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PEST (Nematode)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Prop.	Consump.	COLLECTED IN
Pratylenchus penetrans (Cobb 1917) Filip. & S. Stek. 1941 "Cobb's root-lesion nematode" (Tylenchidae):					
	Juniperus	Penn. (USA)	1		Que.
Pratylenchus sp. "root-lesion nematodes" (Tylenchidae): There were 11 determinations from various hosts from 8 countries.					
Pratylenchus sp. (apparently undescribed) (Tylenchidae):					
	⁂*Rosmarinus* (rosemary)	Italy	1		Que.
Pratylenchus pseudopratensis Seinhorst 1968 "a root-lesion nematode" (Tylenchidae) first interception:					
	⁂*Rosmarinus*	France	1		Que.
Pratylenchus thornei Sher & Allen 1953 "a root-lesion nematode" (Tylenchidae):					
	⁂*Rosmarinus*	Italy	1		Que.
	Rosa	Ore. (USA)	1		Ont.
Rotylenchus robustus (de Man 1876) Filip. 1936 "a spiral nematode" (Tylenchidae):					
	Picea	Germany	2		Que.
	Pinaceae	Maine (USA)	1		Que.
	Thuja	Conn. (USA)	1		Que.
Trichodorus sp. "stubby root nematodes" (Diphtherophoridae):					
	Rhododendron	Cal. (USA)	2		Que.
		Wash. (USA)	1		Alta.
	Rosa	Ore. (USA)	1		B.C.
		⁂Poland	1		Ont.
	Vitis (grape plants)	N.Y. (USA)	1		Ont.
Tylenchorhynchus dubius (Buetschli 1873) Filip. 1936 "a stunt nematode" (Tylenchidae):					
	⁂*Begonia*	Russia	1		Que.
	⁂*Bromelia* etc	Netherlands	1		Que.
	Rosmarinus	Italy	1		Que.
Tylenchorhynchus sp. "stunt nematodes" (Tylenchidae):					
	⁂*Rosa*	Italy	1		Que.
Xiphinema americanum Cobb 1913 "American dagger nematode" (Longidoridae):					
	Acer	Ill. (USA)	1		Ont.
	⁂*Begonia*	Italy	1		Que.
		Russia	1		Que.
	Magnolia	Tenn. (USA)	1		Ont.
Xiphinema sp. "dagger nematodes" (Longidoridae):					
	Acer	Netherlands	1		Ont.
	⁂*Picea*	Germany	1		Que.
	⁂*Rosa*	Poland	1		Que.

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Hosts (or carriers) of Intercepted Pests

ACER:
- Aphelenchoides sp. (Nematode)
- Criconemoides sp. "
- Pratylenchus sp. (2X) "
- Xiphinema americanum "
- Xiphinema sp. "

AESCULUS:
- Arianta arbustorum (Snail)

AGROSTIS:
- Anguina agrostis (3X) (Nematode)
- Melanospora sphaerodermoides (Fungus)

AIRPLANE:
- Anua coronata (Insect)
- Potosia cuprea "

ALLIUM ASCALONICUM (shallot):
- Aphelenchoides sp. (Nematode)
- Ditylenchus dipsaci "

ALLIUM SATIVUM (garlic):
- Ditylenchus destructor "

ANANAS (pineapple):
- Carpophilus hemipterus (Insect)
- Monomorium destructor "
- Paratrechina longicornis "
- Telephanus sp. "

ANNONA (soursop):
- Bephrata maculicollis "

ARTEMISIA:
- Hoplolaimus sp. (Nematode)

ASPARAGUS:
- Heterodera fici (Nematode)
- H. humuli "
- Monomorium pharaonis (Insect)

ASPIDISTRA:
- Pinnaspis aspidistrae "

AUTOMOBILE:
- Heterodera avenae (6X) (Nematode)
- H. fici "
- H. humuli "
- H. punctata (4X) "
- H. schachtii "

BAMBUSA:
- Dinoderus brevis (Insect)
- D. japonicus "
- Lyctus brunneus "

BEGONIA:
- Criconemoides sp. (Nematode)
- Helicotylenchus californicus "
- H. digonicus "
- H. dihystera "
- Heterodera cruciferae "
- Paratylenchus sp. "
- Pratylenchus sp. "
- Tylenchorhynchus dubius "
- Xiphinema americanum (2X) "

BROMELIA:
- Criconemoides sp. "
- Tylenchorhychus dubius "

BULBS:
- Heterodera humuli "
- Heterodera sp. (undescribed sp.) "

BUXUS:
- Heterodera fici "

CALAMONDIN:
- Lasius neoniger (Insect)
- Pheidole floridana "

CALLUNA (heather):
- Heterodera avenae (Nematode)
- H. fici "
- H. rostochiensis(2X) "

CARICA (papaya fruit):
- Tetramorium caespitum (Insect)

CENTAUREA (cornflower, etc.)
- Puccinia verruca (Fungus)

CHAMAEROPS (a palm):
- Diaspis boisduvalii (Insect)

CHRYSANTHEMUM (cuttings):
- Myzus persicae "
- Spodoptera exigua (3X) "

CHRYSANTHEMUM (cut flowers):
- Puccinia horiana (Fungus)

CITRUS (plants and fruit):
- Criconemoides curvatum (Nematode)
- Criconemoides sp. "
- Homona magnanima (Insect)
- Lepidosaphes beckii (2X) "

COCOA BEANS:
- Carpophilus obsoletus "

Hosts (or carriers) of Intercepted Pests

COCOS (coconut fruit and plants):
- Carpophilus hemipterus (Insect)
- Dacus dorsalis "
- Ectomyelois ceratoniae "
- Monomorium minimum (2X) "
- Tetramorium caespitum (2X) "

COFFEA (plant):
- Coccus? viridis "

CONVALLARIA (lily-of-the-valley):
- Pratylenchus sp. (Nematode)

CORNUS:
- Arion ater (Slug)
- Denticolis linearis (Insect)

COTONEASTER:
- Pratylenchus sp. (Nematode)

CRASSULA:
- Heterodera cacti "
- H. cruciferae "

CYCLAMEN:
- Heterodera fici "

DEBRIS (on ship):
- Acedes pallescentella (Insect)
- Carpophilus dimidiatus "
- Hylastes sp. "

DEUTZIA:
- Meloidogyne sp. (Nematode)

DIANTHUS:
- Heterodera fici "

DIEFFENBACHIA:
- Heterodera schachtii "

DIOSPYROS (persimmon):
- Lasius alienus (Insect)
- Tortricidae "

DRACAENA:
- Achatina fulica (Snail)
- Chrysomphalus ficus (Insect)
- Helicina subfusca (Snail
- Monomorium minimum (Insect)

EUONYMUS:
- Helix aspersa (Snail)

FERNS:
- Heterodera fici (Nematode)

FICUS (plants):
- Heterodera fici (2X) (Nematode)
- Saissetia oleae (2X) (Insect)

FORSYTHIA:
- Meloidogyne sp. (Nematode)

FRAGARIA:
- Heterodera schachtii "

FRAXINUS:
- Aphelenchoides sp. "
- Hoplolaimus galeatus "

FRUIT (dried):
- Monomorium destructor (Insect)
- Tetramorium guineense "

FUCHSIA:
- Helix aspersa (Snail)
- Phryganidia californica (Insect)

GARDENIA:
- Pinnaspis aspidistrae (Insect)

GLADIOLUS:
- Microgramme filiformis "

GRAIN (residue on ship):
- Attagenus gloriosae "
- Corcyra cephalonica (2X) "
- Glischrochilus quadrisignatus "
- Litargus balteatus "
- Rhizopertha dominica (15X) "
- Rhizophagus near ferrugineus "
- Sitotroga cerealella (7X) "

HEDERA:
- Criconemoides sp. (Nematode)
- Helicotylenchus sp. (2X) "
- Helix aspersa (Snail)

HEMEROCALLIS:
- Colletotrichum liliacearum (Fungus)

HIBISCUS (okra):
- Maruca testulalis (Insect)

HOWEA (palm):
- Pinnaspis aspidistrae "

HYDRANGEA:
- Heterodera humuli (Nematode)

Hosts (or carriers) of Intercepted Pests

IPOMEA (morning glory seed):
- Spermophagus sp. (Insect)

IRIS (bulbous):
- Ditylenchus destructor (5X) (Nematode)

JUNIPERUS:
- Criconemoides lobatum (Nematode)
- Diphtherophora? obesus "
- Gymnosporangium haraeanum (Fungus)
- G. juniperi-virginianae "
- Helicotylenchus platyurus (Nematode)
- Hoplolaimus galeatus "
- Noctuidae (Insect)
- Pratylenchus penetrans (Nematode)
- Xiphinema americanum (2X) "

LIGUSTRUM:
- Pratylenchus sp. "

LILIUM:
- Heterodera schachtii (2X) "

LITCHI (lychee nuts):
- Crematogaster ashmeadi (Insect)
- Lasius neoniger (2X) "
- Saissetia oleae "

LONICERA:
- Meloidogyne sp. (2X) (Nematode)

LYCOPERSICON (tomato seedlings):
- Aphelenchoides sp. "
- Conoderus vespertinus (Insect)
- Heterodera fici (Nematode)
- H. schachtii "
- Meloidogyne hapla "
- M. incognita "
- M. javanica "
- Meloidogyne sp. (3X) "
- Noctuidae (Insect)

MACHINERY (Agricultural):
- Agriotes pallidulus (Insect)
- Apion spp. "
- Heterodera avenae (Nematode)
- Oulema gallaeciana (Insect)
- Oulema melanopa "
- Phyllotreta sp. near undulata "

MAGNOLIA:
- Xiphinema americanum (Nematode)

MAHONIA:
- Cumminsiella mirabilissima(3X) (Fungus)
- Sitona lineata (Insect)

MALUS (plants):
- Heterodera avenae (Nematode)

MALUS (fruit):
- Epiphyas postvittana (Insect)

MYRISTICA (nutmeg):
- Carpophilus dimidiatus "

NELUMBIUM (lotus seed or nuts):
- Rhyzopertha dominica "

NERIUM (oleander):
- Heterodera cacti (Nematode)
- H. humuli "

OLEA (olive plants & cuttings):
- Heterodera fici "
- Phloeotribus scarabaeoides (Insect)
- Pseudomonas savastanoi (Fungus)

ORCHIDACEAE (incl. Cymbidium):
- Gloeosporium cinctum (Fungus)
- Pheidole floridana (Insect)

ORYZA (rice seed):
- Murmidius ovalis (Insect)
- Rhyzopertha dominica "

OXALIS (shamrock):
- Heterodera avenae (Nematode)

PACHYSANDRA:
- Pinnaspis aspidistrae (Insect)

PACKING:
- Arion subfuscus (Slug)
- Myrmica laevinodis (Insect)
- Nemobius sp. "
- Pseudorhynchus sp. prob. consisus (Insect)

PAEONIA:
- Aphelenchoides sp. (Nematode)
- Criconema sp. "
- Lasius alienus (Insect)

PANAX (ginseng):
- Rhyzopertha dominica "

PELARGONIUM:
- Noctuidae (4X) (Insect)
- Platyptilia? pica (4X) "

PHASEOLUS (beans):
- Callosobruchus maculatus (3X) "
- Maruca testulalis "
- Monomorium pharaonis "
- Pheidole bicarinata vinelandica "

Hosts (or carriers) of Intercepted Pests

PHILADELPHUS:
- Meloidogyne sp. (Nematode)

PHORADENDRON (mistletoe):
- Promylea sp. (Insect)

PICEA:
- Pratylenchus sp. (Nematode)
- Rotylenchus robustus (2X) "
- Xiphinema sp. "

PINACEAE:
- Criconemoides xenoplax "
- Hoplolaimus galeatus "
- Laspeyresia? piperana (Insect)
- Rotylenchus robustus (Nematode)

PLANTS (herbaceous):
- Callosobruchus chinensis (Insect)
- Corcyra cephalonica "
- Criconema sp. (Nematode)
- Criconemoides sp. "
- Helicotylenchus dihystera "
- H. pseudorobustus "
- Helix aspersa (Snail)
- Heterodera avenae (4X) (Nematode)
- H.? bifenestra "
- H. cacti "
- H. fici (8X) "
- H. humuli (9X) "
- H. punctata "
- H. rostochiensis "
- H. schachtii (3X) "
- Liposcelis divinatorius (Insect)
- Pheidole floridana (Insect)
- Tylenchorhynchus dubius (Nematode)
- Wasmannia auropunctata (Insect)

PLANTS (woody):
- Aphelenchoides sp. (Nematode)
- Criconemoides sp. (2X) "
- Helicotylenchus dihystera "
- Helix aspersa (Snail)
- Heterodera avenae (Nematode)
- H. cacti "
- H. schachtii "
- Paratylenchus projectus (Nematode)
- Parlatoria pergandii (Insect)

PRUNUS (fresh fruit):
- Grapholitha molesta (Insect)

PRUNUS (plants & scions):
- Noctuidae "
- Prunus necrotic ringspot virus (3X) "

PSIDIUM (guava fruit):
- Wasmannia auropunctata (Insect)

QUERCUS:
- Myxosporium lanceola (2X) (Fungus)

RANUNCULUS:
- Heterodera cruciferae (Nematode)

RHODODENDRON
- Aphelenchoides sp. "
- Arion fasciatus (Slug)
- Chrysomyxa piperiana (Fungus)
- Gracilaria azaleella (Insect)
- Helix aspersa (Snail)
- Paratylenchus projectus (Nematode)
- Trichodorus sp. (3X) "

RIBES:
- Noctuidae (Insect)

ROSA:
- Aphelenchoides sp. (Nematode)
- Helicotylenchus sp. "
- Heterodera cacti "
- H. punctata "
- Meloidogyne hapla(20X) "
- M. incognita "
- Meloidogyne sp. (4X) "
- Pratylenchus? minyus "
- Pratylenchus sp. "
- P. thornei "
- Tylenchorhynchus sp. "
- Trichodorus sp. (2X) "
- Xiphinema sp. "

ROSMARINUS (rosemary):
- Criconemoides curvatum (2X) "
- C.? maritimum "
- Helicotylenchus digonicus(2X) "
- Paratylenchus projectus "
- Paratylenchus sp. "
- Pratylenchus pseudopratensis "
- Pratylenchus sp. "
- P. thornei "
- Tylenchorhynchus dubius "

SALIX:
- Physalospora (Glomerella) miyabeana (Fungus)

SAXIFRAGA:
- Puccinia heucherae var. saxifraga "
- Tipula lamellata (Insect)

SCHEFFLERA:
- Myzus persicae "
- Noctuidae "

Hosts (or carriers) of Intercepted Pests

SEED (unidentified):
- Liposcelis divinatorius (Insect)
- Rhyzopertha dominica "
- Tetramorium guineense "

SHIP (cargo):
- Trogoderma granarium "

SOIL (souvenirs, etc.):
- Heterodera avenae (Nematode)
- H. humuli "
- H. punctata (2X) "
- H. schachtii "

SOLANUM (potato, pepper):
- Aphodius sp. (Insect)
- Gnorimoschema operculella(2X) "
- Heterodera schachtii (Nematode)
- Silvanus bidentatus (Insect)

SORBUS:
- Prob. Erwinia amylovora (Bacterium)

SPIRAEA:
- Heterodera avenae (Nematode)
- H. punctata "
- Meloidogyne sp. "

SYRINGA:
- Meloidogyne hapla "

THUJA:
- Heterodera cacti "
- Paratylenchus sp. "
- Rotylenchus robustus "
- Thyridopteryx ephemeraeformis (Insect)

TILIA:
- Pratylenchus sp. (Nematode)

TRITICUM (dried ornamental wheat):
- Puccinia? striiformis (Fungus)

UNKNOWN HOST:
- Ectomyelois decolor (Insect)

VIBURNUM:
- Aphelenchoides sp. (Nematode)
- Helix aspersa (Snail)
- Meloidogyne sp. (Nematode)

VIGNA (beans):
- Callosobrunchus maculatus(3X) (Insect)
- Monomorium pharaonis "

VITIS (plants & cuttings):
- Aphelenchoides sp. (2X) (Nematode)
- Fanleaf virus (4X)
- Pratylenchus sp. (Nematode)
- Trichodorus sp. "

WOOD (crates containing cashews):
- Euphoria basalis (Insect)
- Lyctus brunneus "
- Minthea rugicollis "
- Monomorium pharaonis "
- Pheidole dentata "
- Sinoxylon conigerum "

WOOD (lumber & furniture)
- Bostrychoplites cornutus "
- Heterobostrychus brunneus "
- Lyctus brunneus "

WOOD (musical instruments)
- Heterobostrychus brunneus "
- Lyctus brunneus "
- Xyloperthini "

Countries of Origin and Pests Intercepted

AFRICA (country?):
- Bostrychoplites cornutus (Insect)
- Heterobostrychus brunneus "
- Pheidole dentata "

AUSTRALIA (Tasmania):
- Epiphyas postvittana "

AUSTRIA:
- Heterodera humuli (2X) (Nematode)

BELGIUM:
- Aphelenchoides sp. "
- Arion subfuscus (Slug)
- Meloidogyne hapla (2X) (Nematode)
- Myxosporium lanceola (2X) (Fungus)
- Paratylenchus projectus (Nematode)

CHINA:
- Pseudorhynchus sp. prob. consisus (Insect)

COSTA RICA:
- Pheidole floridana (Insect)

DENMARK:
- Heterodera avenae (Nematode)

ENGLAND:
- Heterodera avenae (4X) "
- H. fici "
- H. punctata (3X) "

FIJI:
- Maruca testulalis (2X) (Insect)
- Monomorium pharaonis "
- Pheidole bicarinata vinelandica "

FRANCE:
- Aphelenchoides sp. (Nematode)
- Criconemoides curvatum "
- C.? maritimum "
- Helicotylenchus digonicus "
- Heterodera avenae "
- Meloidogyne hapla (3X) "
- Pratylenchus projectus "
- P. pseudopratensis "

GERMANY (West):
- Agriotes pallidulus (Insect)
- Apion spp. "
- Heterodera avenae (Nematode)
- H. punctata "
- H. schachtii "
- Hoplolaimus sp. "
- Oulema gallaeciana (Insect)
- O. melanopa "
- Phyllotreta sp. near undulata "
- Prunus necrotic ringspot virus
- Rotylenchus robustus (2X) (Nematode)
- Xiphinema sp. "

GREECE:
- Heterodera fici (Nematode)
- Phloeotribus scarabaeoides (Insect)

HAITI:
- Lyctus brunneus "

HONG KONG:
- Anua coronata "
- Callosobruchus chinensis "
- C. maculatis "
- Ditylenchus destructor (Nematode)
- Heterodera avenae "
- Lasius neoniger (2X) (Insect)
- Liposcelis divinatorius "
- Monomorium destructor "
- Parlatoria pergandii "
- Rhyzopertha dominica (3X) "
- Spermophagus sp. "

HUNGARY:
- Heterodera humuli (2X) (Nematode)
- H. schachtii "
- Heterodera sp. (prob. undescribed) "

INDIA:
- Liposcelis divinatorius (Insect)
- Minthea rugicollis "
- Rhyzopertha dominica "
- Tetramorium guineense "

IRELAND (Eire and N. Ireland):
- Carpophilus dimidiatus "
- Heterodera avenae (Nematode)
- H. punctata "

ISRAEL:
- Criconemoides sp. "

ITALY:
- Aphelenchoides sp. "
- Aphodius sp. (Insect)
- Criconema sp. (Nematode)
- Criconemoides curvatum "
- Criconemoides sp. (2X) "
- Fan leaf virus
- Helicotylenchus digonicus "
- H. dihystera "
- Helicotylenchus sp. "
- Heterodera bifenestra "
- H. cacti "
- H. fici (13X) "
- H. humuli (8X) "
- H. schachtii (3X) "
- Heterodera sp. (prob. undescribed) "
- Nemobius sp. (Insect)
- Paratylenchus sp. (Nematode)
- Pinnaspis aspidistrae (Insect)

Countries of Origin and Pests Intercepted

ITALY (Cont'd):
- Pratylenchus sp. (2X) (Nematode)
- P. thornei "
- Prunus necrotic ringspot virus (2X)
- Puccinia? striiformis (Fungus)
- P. verruca "
- Tylenchorhynchus dubius (Nematode)
- Xiphinema americanum

JAMAICA:
- Bephrata maculicollis (Insect)
- Dinoderus brevis "

JAPAN:
- Dinoderus japonicus "
- Gymnosporangium haraeanum (Fungus)
- Homona magnanima (Insect)
- Lasius alienus "
- Lyctus brunneus "
- Potosia cuprea "
- Puccinia horiana (Fungus)
- Silvanus bidentatus (Insect)
- Tortricidae "

MACAO:
- Callosobruchus maculatus "

MEDITERRANEAN AREA:
- Trogoderma granarium "

MEXICO:
- Crematogaster ashmeadi "
- Euphoria basalis "
- Pinnaspis aspidistrae "
- Saissetia oleae "

NETHERLANDS:
- Aphelenchoides sp. (4X) (Nematode)
- Arianta arbustorum (Snail)
- Arion ater (Slug)
- Criconemoides sp. (2X) (Nematode)
- Denticollis linearis (Insect)
- Ditylenchus dipsaci (Nematode)
- Prob. Erwinia amylovora (Bacterium)
- Gracilaria azaleella (Insect)
- Heterodera avenae (3X) (Nematode)
- H. punctata (2X) "
- Hoplolaimus galeatus "
- Meloidogyne hapla (7X) "
- Microgramme filiformis (Insect)
- Myrmica laevinodis "
- Noctuidae "
- Pratylenchus sp. (2X) (Nematode)
- Tylenchorhynchus dubius "
- Xiphinema sp. "

ORIENT:
- Noctuidae (Insect)

PERU:
- Lyctus brunneus (Insect)

PHILIPPINES:
- Callosobruchus maculatus (2X) "
- Monomorium destructor "
- Wasmannia auropunctata "

POLAND:
- Helicotylenchus sp. (Nematode)
- Heterodera avenae "
- H. humuli "
- H. schachtii (3X) "
- Paratylenchus projectus "
- Pratylenchus? minyus "
- Trichodorus sp. "
- Tylenchorhynchus sp. (Nematode)
- Xiphinema sp. "

PORTUGAL:
- Aphelenchoides sp. "
- Corcyra cephalonica (Insect)
- Ectomyelois decolor "
- Helicotylenchus dihystera (Nematode)
- H. pseudorobustus "
- Heterodera cacti "
- H. cruciferae (3X) "
- H. fici (3X) "
- H. humuli "
- H. schachtii (3X) "
- Lepidosaphes beckii (Insect)

PUERTO RICO:
- Coccus sp. prob. viridis "
- Helicina subfusca (Snail)

BEGONIA:
- Helicotylenchus californicus (Nematode)
- H. digonicus "
- Paratylenchus sp. "
- Pratylenchus sp. "
- Tylenchorhynchus dubius "
- Xiphinema americanum "

SIERRA LEONE:
- Heterobostrychus brunneus (Insect)
- Pheidole dentata "
- Xyloperthini "

SPAIN:
- Lyctus brunneus "

SWEDEN:
- Heterodera avenae (Nematode)

Countries of Origin and Pests Intercepted

TAIWAN:
- Heterodera cacti (Nematode)
- Monomorium pharaonis (Insect)

TRINIDAD:
- Carpophilus dimidiatus "

UGANDA:
- Callosobruchus maculatus "

UNITED KINGDOM:
- Heterodera avenae (2X) (Nematode)
- H. cacti (2X) "
- H. fici "
- H. rostochiensis (3X) "

UNITED STATES OF AMERICA (by states)

ALABAMA:
- Meloidogyne sp. (Nematode)

CALIFORNIA:
- Diaspis boisduvalii (Insect)
- Gloeosporium cinctum (Fungus)
- Helix aspersa (7X) (Snail)
- Helicotylenchus sp. (Nematode)
- Laspeyresia sp. prob. piperana (Insect)
- Noctuidae (5X) (Insect)
- Pheidole floridana "
- Phryganidia californica "
- Platyptilia sp. prob. pica (4X) "
- Pratylenchus sp. (Nematode)
- Promylea sp. (Insect)
- Trichodorus sp. (2X) (Nematode)

CONNECTICUT:
- Heterodera cacti "
- Paratylenchus sp. "
- Rotylenchus robustus "

FLORIDA:
- Achatina fulica (Snail)
- Chrysomphalus ficus (Insect)
- Lasius neoniger (2X) "
- Monomorium pharaonis (2X) "
- Myzus persicae "
- Noctuidae "
- Pinnaspis aspidistrae "
- Saissetia oleae (2X) "
- Spodoptera exigua (3X) "
- Wasmannia auropunctata "

GEORGIA:
- Conoderus vespertinus "
- Meloidgyne hapla (2X) (Nematode)
- M. incognita (4X) "
- M. javanica (3X) "
- Meloidogyne sp. (4X) "
- Noctuidae (Insect)

HAWAII:
- Carpophilus hemipterus (2X) (Insect)
- Dacus dorsalis "
- Ectomyelois ceratomae "
- Monomorium minimum (3X) "
- Paratrechina longicornis "
- Pheidole floridana "
- Pinnaspis strachani "
- Telephanus sp. "
- Tetramorium caespitum (3X) "

IDAHO:
- Grapholitha molesta "

ILLINOIS:
- Colletotrichum liliacearum (Fungus)
- Gymnosporangium juniperi virginianae "
- Xiphinema americanum (Nematode)

IOWA:
- Aphelenchoides sp. (2X) (Nematode)
- Meloidogyne hapla "

MAINE:
- Criconemoides xenoplax "
- Rotylenchus robustus "

MARYLAND:
- Pratylenchus sp. "

MICHIGAN:
- Aphelenchoides sp. "
- Pinnaspis aspidistrae (Insect)

MINNESOTA:
- Pratylenchus sp. (Nematode)

MISSISSIPPI:
- Heterodera cacti "

NEW JERSEY:
- Ditylenchus destructor "

NEW YORK:
- Criconemoides sp. "
- Helicotylenchus dihystera "
- Pratylenchus sp. "
- Trichodorus sp. "

OREGON:
- Anguina agrostis (3X) "
- Aphelenchoides sp.
- Melanospora sphaerodermoides (Fungus)
- Meloidogyne sp. (2X) (Nematode)
- M. hapla (3X) "
- Pratylenchus sp. "
- P. thornei "
- Puccinia heucherae (Fungus)
- Trichodorus sp. (Nematode)

Countries of Origin and Pests Intercepted

PENNSYLVANIA:

Criconemoides lobatum	(Nematode)
Diphtherophora? obesus	"
Helicotylenchus platyurus	"
Hoplolaimus galeatus	"
Meloidogyne hapla	"
Pratylenchus penetrans	"
Xiphinema americanum (2X)	"

TENNESSEE:

Meloidogyne sp. (6X)	"
M. hapla (2X)	"
Physalospora miyabeana	(Fungus)
Thyridopteryx ephemeraeformis (2X)	(Insect)
Xiphinema americanum	(Nematode)

TEXAS:

Meloidogyne sp. (2X)	"
M. hapla (3X)	"
M. incognita	"

VIRGINIA:

Heterodera cacti	"
Phthorimaea operculella	(Insect)

WASHINGTON:

Arion fasciatus	(Slug)
Chrysomyxa piperiana	(Fungus)
Cumminsiella mirabilissima(3X)	"
Ditylenchus destructor (4X)	(Nematode)
Sitona lineata	(Insect)
Tipula lamellata	"
Trichodorus sp.	(Nematode)

UNKNOWN:

Acedes pallescentella	(Insect)
Attagenus gloriosae	"
Callosobruchus maculatus	"
Carpophilus obsoletus	"
Corcyra cephalonica	"
Glischrochilus quadrisignatus	"
Heterodera punctata	(Nematode)
Hofmannophila pseudospretella (7X)	(Insect)
Hylastes sp.	(Insect)
Litargus balteatus	"
Rhizophagus near ferrugineus	"
Rhyzopertha dominica (15X)	"
Sitotroga cerealella (7X)	"

VIETNAM:

Lasius alienus	"
Murmidius ovalis	"

YUGOSLAVIA:

Fanleaf virus (3X)